
2.0 Mb/s Remote Peripheral Equipment Alarm Handler Diagnostic (LD 53)

The RPE Alarm Handler monitors and reports alarm signals generated for the 2.0 Mb/s Remote Peripheral Equipment feature. To test RPE, use LD 53.

This Overlay is not provided on Option 11 systems, since Remote Peripheral Equipment (RPE) is not used on these systems.

The following alarm conditions and responses are reported by the resident RPE alarm handler:

RPE0xx—indicates occurrence of processor-detected faults

RPE1xx—indicates counter threshold violations on processor detected faults. Sparing will be attempted if the loop is not under maintenance control.

RPE2xx—indicates timer threshold violations on processor-detected faults. Sparing will be attempted if the loop is not under maintenance control.

RPE3xx—indicates problems associated with sparing. Sparing will be aborted.

RPE4xx—indicates problems encountered during initialization of RPE loops.

RPE messages

RPE0001 loop	Frame alignment signal error rate exceeded at remote site of loop. Message is printed for each occurrence.
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RPE

RPE0002 loop	PCM error rate exceeded at remote end of RPE loop. Message is printed for each occurrence.
RPE0003 loop	Customer-specified alarm 3 for RPE loop. Action: Refer to customer records.
RPE0004 loop	Customer-specified alarm 2 for RPE loop.
RPE0005 loop	Remote controller failed on RPE loop. Action: Test remote RPC.
RPE0006 loop	Customer-specified alarm 1 for RPE loop.
RPE0007 loop	Loss of carrier clock at the local site for RPE loop. Probable carrier fault. Action: Use loop-around test to isolate.
RPE0008 loop	Path switch missing faulty or disabled on RPE loop. Action: Check path switch for shelf. Enable if disabled or replace if faulty.
RPE0010 loop	Loss of frame alignment at the remote site of RPE loop. Message printed for each occurrence.
RPE0011 loop	Loss of frame alignment at the local site of RPE loop. Message printed for each occurrence.
RPE0012 loop	PCM error rate exceeded at local site of RPE loop. Message printed for each occurrence.
RPE0013 loop	Frame alignment signal error rate exceeded at local site for RPE loop. Message printed for each occurrence.
RPE0014 loop	Local controller outgoing messages buffer of loop overflowed. Message printed for each occurrence. Probable network fault. Action: Test network.
RPE0015 loop	Local controller incoming messages buffer of loop overflowed. Message printed for each occurrence. Action: Perform loop-around test on loop.
RPE0016 loop	Local controller of RPE loop initialized. Probable local RPC fault. Action: Test RPC.
RPE0017 loop	SSD failure on peripheral buffer of RPE loop. Check peripheral buffers.

RPE0023 loop	Customer specified alarm 3 has been cleared.
RPE0024 loop	Customer specified alarm 2 has been cleared.
RPE0025 loop	Warning: Customer specified alarm has not been cleared.
RPE0026 loop	Customer specified alarm 1 has been cleared.
RPE0101 loop	Counter threshold of alarm condition RPE001 exceeded. Probable carrier fault. Action: Use loop-around test to isolate.
RPE0102 loop	Counter threshold of alarm condition RPE002 exceeded. Probable carrier fault. Action: Use loop-around test to isolate.
RPE0105 loop	Counter threshold of alarm condition RPE005 exceeded. Action: Test and repair remote RPC.
RPE0110 loop	Counter threshold of alarm condition RPE010 exceeded. Probable carrier or Carrier Interface (CI) pack fault. Action: Use loop-around test to isolate.
RPE0111 loop	Counter threshold of alarm condition RPE011 exceeded. Probable remote RPC or CI card failure.
RPE0112 loop	Counter threshold of alarm condition RPE012 exceeded. Probable carrier fault. Action: Use loop-around tests to isolate the fault.
RPE0113 loop	Counter threshold of alarm condition RPE013 exceeded. Probable carrier fault. Action: Use loop-around tests to isolate the fault.
RPE0116 loop	Counter threshold of alarm condition RPE016 exceeded. Action: Test and repair RPC card.
RPE0201 loop	Alarm RPE001 has exceeded timer threshold. Probable carrier fault. Action: Use loop-around test to isolate.
RPE0202 loop	Alarm RPE002 has exceeded timer threshold. Probable carrier fault. Action: Use loop-around test to isolate.
RPE0205 loop	Alarm RPE005 has exceeded timer threshold. Action: Test and repair remote RPC.

RPE

RPE0210 loop	Alarm RPE010 has exceeded timer threshold. Probable CI or carrier fault. Action: Use loop-around test to isolate.
RPE0211 loop	Timer threshold of alarm condition RPE011 exceeded. Probable remote RPC or CI failure.
RPE0212 loop	Timer threshold of alarm condition RPE012 exceeded. Probable carrier fault. Action: Use loop-around test to isolate.
RPE0213 loop	Timer threshold of alarm condition RPE013 exceeded. Probable carrier fault. Action: Use loop-around test to isolate.
RPE0300 I1 I2 I3	Request to spare loop I1 with I2 has failed. I1 was switched to L3 loop instead. Path switch or spare loop faulty. Action: Test and repair.
RPE0301 loop	Loop cannot be spared because it is a spare loop. Spare loop may be disabled; check status.
RPE0302 loop	Loop does not have a spare. Sparing aborted.
RPE0303 g	Group g is out of range or data corruption.
RPE0304 loop s	Loop I cannot be spared by s because spare is in use. Action: Test and clear fault on loop already spared.
RPE0305 loop s	Loop cannot be spared by s because spare is faulty. Action: Test and clear fault on spare loop.
RPE0306 I1 I2	Loop I1 cannot be spared by I2 because path switch is disabled or unequipped. Action: If path switch is equipped, enable and try again.
RPE0307 I1 I2	Loop I1 sparing by I2 aborted because of bad response from remote RPE in spare loop. Action: Test RPC of spare loop.
RPE0308 I1 I2	Loop I1 sparing by I2 aborted because of bad response from remote RPC in spare loop. Action: Test and repair RPC of spare loop.
RPE0309 I1 I2	Loop I1 sparing by I2 aborted because of bad response from spare loop.

Action: Test and repair spare loop.

RPE0310 loop Loop cannot be spared because spare loop is disabled.

Action: Test and enable spare loop.

RPE0311 I1 I2 Software problem. Loop I2 should not have loop L1 assigned.

Action: Contact your technical support group.

RPE0312 loop Loop cannot be spared because loop is disabled.

Action: Test and enable the loop.

RPE0313 A PSW response message has been received from a prime loop, while it was expecting from the spare loop. (Loop the message comes from and spare loop numbers to follow.)

RPE0400 loop A PE shelf cannot be enabled after an RPC initialize.

Action: Test local and remote RPC.

RPE0401 loop Bad response received from RPC card.

Action: Test RPC.

RPE0402 loop Bad response from RPC card.

Action: Test RPC.

RPE0403 loop Bad response from RPC card.

Action: Test RPC.

RPE0404 loop No protected RPE group data block has been defined for this loop. Loop has been disabled.

RPE0500 loop Loop has been spared.